

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: ISPH-0794  
Inventors: Freier et al.  
Serial No.: Not yet assigned  
Filing Date: Herewith  
Examiner: Not yet assigned  
Group Art Unit: Not yet assigned  
Title: METHODS OF OBTAINING ACTIVE ANTISENSE  
COMPOUNDS

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By Jane Massey Licata  
Typed Name: Jane Massey Licata, Reg. No. 32,257

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P.O. Box 1450  
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Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

- (xx) In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.
- ( ) In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, therefore:
- ( ) Certification in Accordance with §1.97(e) is set forth below; or
- ( ) The fee of \$240.00 as set forth in §1.17(p) is attached.
- ( ) In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); Petition Requesting Consideration of the Information Disclosure Statement; and the fee of \$130.00 as set forth in §1.17(I)(1).
- ( ) Copies of each of the references listed on the attached Form PTO-1449 (modified) are enclosed herewith.

( ) In accordance with §1.98(d), copies of some or all of the references listed on the attached Form PTO-1449 (modified) are not enclosed herewith because they were previously submitted to the U.S. Patent and Trademark Office in prior application Serial No. **09/568,165**, filed **May 9, 2000**, for which a claim for priority under 35 U.S.C. §120 has been made in the instant application.

Please charge any deficiency or credit any overpayment to Deposit Account No. 50-1619. This form is submitted in duplicate.

( ) The relevance of the listed references in a foreign language is as stated in the specification at pages @@.

(~~xx~~) All listed references are in the English language.

Respectfully submitted,

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Date: October 15, 2003

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<b>Form PTO-1449 Modified</b>  List of Patents and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office				Docket No. <b>ISPH-0794</b>		Serial No. <b>Not yet assigned</b>	
				Applicant <b>FREIER ET AL.</b>			
				Filing Date <b>Herewith</b>		Group <b>Not yet assigned</b>	
<b>U. S. PATENT DOCUMENTS</b>							
Examiner		Document	Date	Name	Class	Subclass	
	AA	5,523,389	6-4-96	Ecker et al.	536	23.1	
	AB	5,756,710	5-26-98	Stein et al.	536	24.5	
	AC	5,952,490	9-14-99	Hanecak et al.	536	24.5	
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial		Document No.	Date	Country	Translation YES                      NO		
	AD	WO 94/08053	14-4-94	PCT	x		
	AE	WO 99/01139	14-1-99	PCT	x		
EXAMINER				DATE CONSIDERED			

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		Filing Date <b>Herewith</b>	Group <b>Not yet assigned</b>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	AA	Matthews et al., "Predicting oligonucleotide affinity to nucleic acid targets", <i>RNA</i> <b>1999</b> 5:1458-1469	
	AB	Patzel et al., "A theoretical approach to select effective antisense oligodeoxyribonucleotides at high statistical probability", <i>Nucl. Acids Res.</i> <b>1999</b> 27:4328-4334	
	AC	Stewart et al., "Reduction of Expression of the Multidrug Resistance Protein (MRP) in Human Tumor Cells by Antisense Phosphorothioate Oligonucleotides", <i>Biochem. Pharmacol.</i> <b>1996</b> 51:461-469	
	AD	Stull et al., "Predicting antisense oligonucleotide inhibitory efficacy: a computational approach using histograms and thermodynamic indices", <i>Nucl. Acids Res.</i> <b>1992</b> 20:3501-3508	
	AE	Toon et al., "Bias in Nucleotide Composition of Antisense Oligonucleotides", <i>Antisense Nucl. Acid Drug Dev.</i> <b>1996</b> 6:63-67	
	AF	Tu et al., "Tetranucleotide GGGA Motif in Primary RNA Transcripts", <i>J. Biol. Chem.</i> <b>1998</b> 273:25125-25131	
	AG	Wyatt et al., "Oligonucleotides Containing the G-Quartet Sequence Motif", <i>Appl. Antisense Ther. Restenosis</i> <b>1999</b> 133-140	
	AH	Wyatt et al., "Combinatorially selected guanosine-quartet structure is a potent inhibitor of human immunodeficiency virus envelope-mediated cell fusion", <i>Proc. Natl. Acad. Sci. USA</i> <b>1994</b> 91:1356-1360	
	AI	Wyatt et al., "Kinetics of G-Quartet-Mediated Tetramer Formation", <i>Biochemistry</i> <b>1996</b> 35:8001-8008	
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>	